

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/982,543A

DATE: 05/02/2002 TIME: 17:23:22

Input Set : A:\CIBT-P04-523 Sequence Listing.txt

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Output Set: N:\CRF3\05022002\1982543A.raw
 4 <110> APPLICANT: Dijke, P.
                                                 ENTERE
 5
         Miyazano, K.
         Sampath, K.
 6
         Heldin, C.
 9 <120> TITLE OF INVENTION: MORPHOGENIC PROTEIN-SPECIFIC CELL SURFACE RECEPTORS AND USES
10
         THEREFOR
12 <130> FILE REFERENCE: CIBT-P04-543
14 <140> CURRENT APPLICATION NUMBER: 09/982,543A
15 <141> CURRENT FILING DATE: 2001-10-18
17 <150> PRIOR APPLICATION NUMBER: 08/448,371
18 <151> PRIOR FILING DATE: 1995-06-02
20 <160> NUMBER OF SEQ ID NOS: 15
22 <170> SOFTWARE: PatentIn version 3.1
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27 <213> ORGANISM: Homo sapiens
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31 <222> LOCATION: (1)..(1509)
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40 Leu Val Thr Gln Gly Asp Pro Val Lys Pro Ser Arg Gly Pro Leu Val
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43 acc tgc acg tgt gag agc cca cat tgc aag ggg cct acc tgc cgg ggg
                                                                         144
44 Thr Cys Thr Cys Glu Ser Pro His Cys Lys Gly Pro Thr Cys Arg Gly
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47 gcc tgg tgc aca gta gtg ctg gtg cgg gag gag ggg agg cac ccc cag
48 Ala Trp Cys Thr Val Val Leu Val Arg Glu Glu Gly Arg His Pro Gln
49
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51 gaa cat cgg ggc tgc ggg aac ttg cac agg gag ctc tgc agg ggg cgc
                                                                         240
52 Glu His Arg Gly Cys Gly Asn Leu His Arg Glu Leu Cys Arg Gly Arg
55 ccc acc gag ttc gtc aac cac tac tgc tgc gac agc cac ctc tgc aac
                                                                         288
56 Pro Thr Glu Phe Val Asn His Tyr Cys Cys Asp Ser His Leu Cys Asn
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59 cac aac gtg tcc ctg gtg ctg gag gcc acc caa cct cct tcg gag cag
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60 His Asn Val Ser Leu Val Leu Glu Ala Thr Gln Pro Pro Ser Glu Gln
61
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63 ccg gga aca gat ggc cag ctg gcc ctg atc ctg ggc ccc	
64 Pro Gly Thr Asp Gly Gln Leu Ala Leu Ile Leu Gly Pro	Val Leu Ala
65 115 120 125	
67 ttg ctg gcc ctg gtg gcc ctg ggt gtc ctg ggc ctg tgg	
68 Leu Leu Ala Leu Val Ala Leu Gly Val Leu Gly Leu Trp	His Val Arg
69 130 135 140	
71 cgg agg cag gag aag cag cgt ggc ctg cac agc gag ctg	
72 Arg Arg Gln Glu Lys Gln Arg Gly Leu His Ser Glu Leu	
73 145 150 155	16.0
75 agt ctc atc ctg aaa gca tct gag cag ggc gac acg atg	
76 Ser Leu Ile Leu Lys Ala Ser Glu Gln Gly Asp Thr Met	
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79 ctc ctg gac agt gac tgc acc aca ggg agt ggc tca ggg	
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81 180 185	
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84 Leu Val Gln Arg Thr Val Ala Arg Gln Val Ala Leu Val 85 195 200 205	GIU CYS VAI
	cac ggt gag 672
87 gga aaa ggc cgc tat ggc gaa gtg tgg cgg ggc ttg tgg 88 Gly Lys Gly Arg Tyr Gly Glu Val Trp Arg Gly Leu Trp	
	HIS GIY GIU
	tcc tqq ttc 720
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93 225 230 235	240
95 cgg gag act gag atc tat aac aca gta ttg ctc aga cac	
96 Arg Glu Thr Glu Ile Tyr Asn Thr Val Leu Leu Arg His	
97 245 250	255
99 cta ggc ttc atc gcc tca gac atg acc tcc cgc aac tcg	
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101 260 · 265	270
103 ctg tgg ctc atc acg cac tac cac gag cac ggc tcc ctc	
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105 275 280 285	
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108 Leu Gln Arg Gln Thr Leu Glu Pro His Leu Ala Leu Arg	
109 290 295 300	
111 tee geg gea tge gge etg geg eac etg cae gtg gag ate	c ttc ggt aca 960
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113 305 310 315	320
115 cag ggc aaa cca gcc att gcc cac cgc gac ttc aag agc	
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117 325 330	335
119 ctg gtc aag agc aac ctg cag tgt tgc atc gcc gac ctg	g ggc ctg gct 1056
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123 gtg atg cac tca cag ggc agc gat tac ctg gac atc ggc	c aac aac ccg 1104
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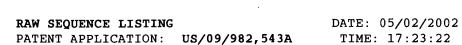


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		ggc	_		-				-	-							1248
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137					405					410					415		
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	Ile	Val	Glu	_	Tyr	Arg	Pro	Pro		Tyr	Asp	Val	Val		Asn	Asp	
141				420					425					430			1244
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	Pro	Ser		GIU	Asp	Met	гàг		vaı	vaı	Cys	vaı	_	GIn	GIn	Tnr	
145			435					440					445				1202
		acc															1392
149	PIO	Thr 450	TTE	PIO	ASII	AIG	455	Ата	Ата	ASP	PIO	460	Leu	ser	GIY	Leu	
	act	cag	2+4	2+4	aaa	a a a		+ ~ ~	+20	003	220		t at	aaa	003	ata	1440
	-	Gln	_	_			_							_	-		1440
	465	GIII	Mec	Met	лту	470	Cys	115	ıyı	FIO	475	FIO	SET	AIG	Arg	480	
		gcg	cta	caa	ato		aan	202	cta	caa		att	adc	aac	ant		1488
		Ala															1400
157	1111	пда	пси	nra	485	цуз	цуз	1111	Deu	490	Lys	110	DCI	ASII	495	110	
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		-1-		-10													
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163 164 165 166 168 169	<213 <213 <213 <400 Met 1	1> LI 2> TY 3> OI 0> SI Thr	ENGTE (PE: RGAN) EQUEN Leu	NO: H: 50 PRT ISM: NCE: Gly	Homo 2 Ser 5	sag Pro	piens Arg	Lys		10					15		
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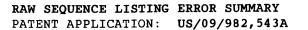
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	Ser	T.e.ii	Tlo	T.A11	T.vc		Ser	Glu	Gln	Glv		Thr	Met	T.e.11	Glv	
200	001	u		cu	165	1114	001	014	0111	170	1100	1.11	1100	Lou	175	op
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209	_	210	-	-	-	•	215		_	_	-	220	-		_	
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	Leu		Arg	Gln	Thr	Leu		Pro	His	Leu	Ala		Arg	Leu	Ala	Val
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	Ser		Ala	Cys	GIY		Ala	Hls	Leu	His		Glu	TTE	Pne	GLY	
	305		T	D	3.1.	310	31.	m4 _	3	3	315	T		3	3 ~~	320
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230	Leu	17 a 1	T 110	Cor	325	T OU	Cln	Crrc	Crra	330	ת 1 ת	λαη	T 011	C1**	335	7 l n
232	пеа	vai	гуѕ	340	ASII	Leu	GIII	Cys	345	116	мта	ASP	ьеи	350	neu	Ата
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				ISM:	Hom	o sa	pien	s									
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296			55					60					65				
				cag													355
	GIY		Phe	Gln	Val	Tyr		GIn	GIY	Lys	Met		Cys	Lys	Thr	Pro	
300		70					75					80					
				ggc													403
303		ser	Pro	Gly	GIN		vaı	GIU	Cys	Cys		GTÄ	Asp	Trp	Cys		
		226	2+4	200	~~~	90	a+ a		- at		95		+	++-	+	100	451
				acg Thr													451
308	лту	ASII	116	1111	105	GIII	цец	PIO	1111	110	СТУ	пуз	361	rne	115	GIY	
	aca	cad	aat	ttc		tta	πaπ	att	aac	-	att	att	ata	tot		ata	499
				Phe													400
312		01		120		200	OLU	141	125	шси		110	DC4	130	, 4, 1	vui	
	ttc	qca	gta	tgt	ctt	tta	acc	tac		cta	σσα	at.t.	act.		сαа	aaa	547
				Cys													
316			135	- 4 -				140			1		145		5	-1-	
318	ttt	aaa	agg	cgc	aac	caa	qaa	cqc	ctc	aat	ccc	cqa	gac	qtq	qaq	tat	595
				Arg													
320		150	_	_			155	_				160	_			-	
322	ġgc	act	atc	gaa	ggg	ctc	atc	acc	acc	aat	gtt	gga	gac	agc	act	tta	643
323	Gly	Thr	Ile	Glu	Gly	Leu	Ile	Thr	Thr	Asn	Val	Gly	Asp	Ser	Thr	Leu	
324	165					170					175					180	
				ttg													691
	Ala	Asp	Leu	Leu	Asp	His	Ser	Cys	Thr	Ser	Gly	Ser	Gly	Ser	Gly	Leu	
328					185					190					195		
				gta													739
	Pro	Phe	Leu	Val	Gln	Arg	Thr	Val		Arg	Gln	Ile	Thr		Leu	Glu	
332				200					205					210			



DATE: 05/02/2002 TIME: 17:23:23

Input Set : A:\CIBT-P04-523 Sequence Listing.txt

Output Set: N:\CRF3\05022002\I982543A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the $\langle 220 \rangle$ to $\langle 223 \rangle$ fields of each sequence which presents at least one n or Xaa.

Seq#:11; Xaa Pos. 2,3,9,11,16,19,23,26,35,39,41,50,52,56,57,58,60,61,65,71

Seq#:11; Xaa Pos. 73,75,80,82,84,87,89,91,97

Seq#:12; N Pos. 20